

Name: _____

INTRODUCTION TO GEOGEBRA

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Please follow your teacher's instructions to open GeoGebra.
This activity will teach you to use four important tools



Move Tool






Point Tool

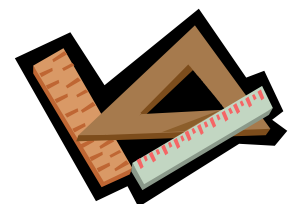


Segment Tool



Polygon Tool

1.
 - a) Choose the point tool. 
 - b) Draw any ten points.
 - c) Select a point by clicking on it.
 - d) Describe how your selected point is different from the other points. _____
This shows that the point has been selected.
 - e) Choose the move tool. 
 - f) Next, hold down the left mouse key on the point and slide the mouse.
 - g) Describe what happened. _____
 - h) De-select, or unselect, this point by clicking in an empty space.
 - i) Select a different point and repeat steps (b), (c), and (e).
 2.
 - a) Select any three points by clicking on each point while holding the control key.
 - b) Drag, or move, one of the selected points.
 - c) Describe what happened. _____
 - d) De-select these points by clicking in an empty space.
 - e) Select a different group of points. Practice sliding and de-selecting them.
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3.
 - a) Select any five points.
 - b) Press the **delete** key.
 - c) Describe what happened. _____
 - d) Select and delete two more points.
 - e) Select and delete the remaining points.
 4.
 - a) Choose the segment tool. 
 - b) Draw any ten separate line segments.
 - c) Choose the move tool
 - d) Describe what happens when clicking the line segment with the move tool. _____
This shows that the line segment has been selected.
 - e) Drag the selected line segment.
 - f) De-select this line segment by clicking in an empty space.
 - g) Select a different line segment and repeat steps (b) and (c).
 - h) Select the endpoints of any four line segments.
 - f) Drag one of the selected points.



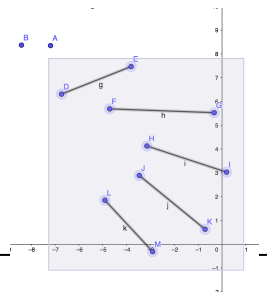
- g) Describe what happened. _____
- h) De-select these line segments by clicking in an empty space.
- i) Select a different group of line segments. Practice sliding and de-selecting them.


- 5.
- a) Select one line segment.
 - b) Press the **delete** key.
 - c) Describe what happened. _____
 - d) Select a line segment and its two endpoints.
 - e) Press the **delete** key.
 - f) Describe what happened and how this is different from part (c).

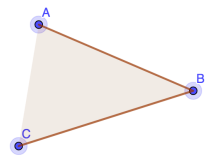
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- g) Select four line segments and their endpoints.
 - h) Press the **delete** key.

6. Many points and line segments may be selected and deleted at the same time by creating a selection rectangle as in the diagram.





- a) Draw some points and line segments.
- b) Hold down the right mouse key and drag the mouse from an empty space around several points and line segments.
- c) Describe what happened. _____
- d) Press the **delete** key.
- e) Describe what happened. _____
- f) Clear the screen by using a selection rectangle and the **delete** key.



7. a) Draw a triangle using the polygon tool.  Do this by drawing three points, A, B & C. Then click point A again to finish the triangle. *As shown, the triangle is incomplete if the first point is not selected again.*
- b) Draw four more triangles with different shapes.
 - c) Clear four of the triangles by using selection rectangles and the **delete** key.



- 8.
- a) With the move tool, select one side of the triangle.
 - b) Drag this side and observe how the triangle changes.
 - c) Select another side and repeat steps (b) and (c).
 - d) Select a corner point, or vertex, of the triangle.
 - e) Drag this vertex and observe how the triangle changes.
 - f) By dragging different sides or vertices, practice changing the shape of this triangle.
- 9.
- a) Use a selection rectangle to select the whole triangle.
 - b) Practice sliding this triangle.
 - c) Delete this triangle.
 - d) Create a different triangle and repeat steps (a), (b), and (c).

10. Spend about 5 minutes and use , , ,  and your talent in art to draw a picture of your choice. Be creative! Show your artistic creation to your teacher.